2015-2016

Biological Assessment

New Jersey Department of Environmental Protection

General Sheet

*** Site ID:** _____ *** Watershed Management Area:** _____

*** Site Name:** _____ *** County:** _____

*** Segment Identification:** Latitude/Longitude: _____

Estimate of Segment Length (aim for 100m): _____

*** Survey Team:** _____

*** Time:** _____ * **Date:** _____

Current Weather: (circle one) ☐Clear ☐Partly Cloudy ☐Overcast ☐Light Rain ☐Steady Rain ☐Heavy Rain ☐Snow ☐Heavy Snow Melt

Days since last rain: _____ **Air Temp** _____ ° C **Water Temp**_____ ° C

Transect: Avg. Stream Width _____meters Avg. Stream Depth _____meters

Velocity _____meters/second

What do you believe to be the greatest potential threat to the stream both now and in the future?

_____

_____

Biological Assessment

Rocky Bottom

Take your sample(s) within riffle areas. Record the Habitat Types Present and the percentage of each substrate type present in riffles in the River Bottom Composition tables below.

Muddy Bottom

Take about 20 scoops. The most scoops should be taken in the most representative habitat type present. Record the Habitat Types Present and the percentage of each substrate type present in the River Bottom Composition tables below.

Habitat Types Present (check all that apply)

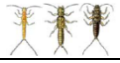
- □ Fine woody debris
- □ Leaf Packs
- □ Boulders
- □ Vegetated Bank Margins
- □ Submerged Logs
- □ Cobble
- □ Coarse Gravel
- □ Other

River Bottom Composition (must = 100)

_____ % Sand	_____ % Silt
_____ % Organic	_____ % Gravel
_____ % Cobble	_____ % Boulder
_____ % Bedrock	_____ % Other

Macroinvertebrate Sorting

Empty all of your macroinvertebrates from your net into a bucket of water. Pick your net clean of any remaining macroinvertebrates and place them in the bucket. Use your small sorting container to swirl the water and the macroinvertebrates in the bucket. Once everything is stirred up well, take a scoop from the bucket with your sorting container. Sort all of the macroinvertebrates in your sorting container and record their numbers in the table on the next page. If you have 100 or more macroinvertebrates recorded in your table you can stop, if you have less than 100 macroinvertebrates re-stir the bucket and take another scoop to sort in your sorting container, continue this process until you have recorded 100 or more macroinvertebrates. If you have sorted your entire bucket and have not reached 100 macroinvertebrates you need to take another sample from the stream.

Macroinvertebrate	Tally	Count
Mayflies 		
Stoneflies 		
Caddisflies 		
Hellgrammite/Fish Flies 		
Watersnipe Flies 		
Riffle Beetles 		
Water Pennies 		
Gilled Snails 		
Net Spinning Caddisflies 		
Alderflies 		
Damselflies 		
Dragonflies 		

Macroinvertebrate	Tally	Count
Crane Flies 		
Sowbugs 		
Scuds 		
Crayfish 		
Clams/Mussels 		
Black flies 		
Midge flies 		
Lunged snails 		
Worms 		
Leeches 		
Check one: □ High Gradient □ Pinelands □ Coastal Plain	**Total Number of Organisms in Sample**	
Check here if sample count does not equal 100 macroinvertebrates. □		Score: Rating:

General Observations (character limit 60): _____

_____

Overall Comment (character limit 250)

_____

_____

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